CLAIMS

What is claimed is:

1	1. A torch, comprising:		
2	a torch butt;		
3	a valve assembly operable to control a first flow of a fluid through the torch butt,		
4	a lever selectively securable to pivot about a first portion of the torch butt and a second		
5	portion of the torch butt, wherein the second portion is disposed on the torch butt opposite the		
6	first portion; and		
7	wherein the valve assembly is operable to enable the lever to operate the valve assembl		
8	with the lever selected to pivot about the first portion of the torch butt and the second portion o		
9	the torch butt.		
1	2. The torch recited in claim 1, wherein the valve assembly is securable to the torch		
2	butt in a first orientation relative to the torch butt and in a second orientation relative to the torch		
3	butt, the second orientation being inverted relative to the first orientation.		
1	The torch recited in claim 2, wherein the valve assembly comprises a seat and		
2	the torch butt comprises a first seating surface for sealing engagement with the seat when the		
3	valve assembly is disposed in the first orientation and a second seating surface for sealing		
4	engagement with the seat when the valve assembly is disposed in the second orientation.		
1	4. The torch as recited in claim 1, wherein the first portion of the torch butt and the		
2	second portion of the torch butt are disposed proximate to the rear of the torch butt.		
1	5. The torch as recited in claim 1, wherein the torch butt comprises a second valve		
2	assembly operable to control a second flow of the fluid through the torch butt.		
1	6. The torch as recited in claim 5, wherein the second valve assembly comprises a		
2	throttle valve.		
1	7. The torch as recited in claim 1, comprising a handle coupleable to the torch butt		
2	wherein the handle has a skull-shaped cross section uniform along a length of the handle.		

1	8.	The torch as recited in claim 1, comprising a handle coupleable to the torch butt,			
2	wherein the handle has an upper radius and a lower radius that are uniform along a length of the				
3	handle.				
1	9.	A method of manufacturing a torch, comprising:			
2	selecting a desired location for placement of a lever on the torch from one of a plurality				
3	of locations on the torch adapted to receive the lever;				
4	dispo	sing a valve assembly within the torch in one of a first orientation relative to the			
5	torch and a se	econd orientation relative to the torch based on the desired location for the lever;			
6	and				
7	pivot	ally securing the lever to the torch at the desired location to enable the lever to			
8	operate the valve assembly.				
1	10.	The method of manufacturing a torch recited in claim 9, wherein disposing a			
2	valve assemb	ly within a passage in the torch comprises assembling the valve assembly within			
3	the torch to e	nable a seat to engage a first seating surface when the valve assembly is disposed			
4	in the first or	ientation and assembling the valve assembly within the torch to enable the seat to			
5	engage a seco	and seating surface when the valve assembly is disposed in the second orientation.			
1	11.	The method as recited in claim 10, comprising manufacturing a torch butt with a			
2	passage to re	ceive the valve assembly, the passage being formed to define the first seating			
3	surface and the second seating surface.				
1	12.	The method as recited in claim 11, wherein manufacturing a torch butt			
2	comprises ma	anufacturing the torch butt with a first passageway and a second passageway, the			
3	first passagev	way enabling a fluid to flow through the torch butt when the valve assembly is			
4	disposed in the first orientation, and the second passageway enabling the fluid to flow through				
5	the torch but	when the valve assembly is disposed in the second orientation.			
1	13.	The method as recited in claim 11, comprising coupling a handle to the torch			

butt.

1	14. A torch, comprising:		
2	a valve assembly; and		
3	a torch butt comprising a passageway for receiving the valve assembly,		
4	wherein the valve assembly is selectively securable to the torch butt in a first orientation		
5	and a second orientation relative to the torch butt, the second orientation being inverted relative		
6	to the first orientation.		
1	15. The torch as recited in claim 14, wherein the passageway defines a first seating		
2	surface and a second seating surface for sealing engagement with the valve assembly, the first		
3	and second seating surfaces being oriented in opposite directions.		
1	16. The torch as recited in claim 14, comprising a first portion and a second portion,		
2	wherein the first and second portions are operable to pivotally secure a valve-operating lever to		
3	the torch butt, wherein the first portion and the second portion are disposed on opposite rear		
4	positions of the torch butt.		
1	17. The torch as recited in claim 16, wherein the valve assembly is oriented in the		
2	first orientation to enable the valve-operating lever to operate the valve assembly when secured		
3	to the first portion of the torch butt.		
1	18. The torch as recited in claim 17, wherein the valve assembly is oriented in the		
2	second orientation to enable the valve-operating lever to operate the valve assembly when		
3	secured to the second portion of the torch butt.		
1	19. The torch as recited in claim 16, wherein the first portion and the second portion		
2	comprise a hole in the torch member.		
1	20. The torch as recited in claim 14, comprising:		
2	an inlet for receiving a first fluid into the torch butt; and		
3	a first passageway that couples the inlet to the valve assembly when the valve assembly		
4	is oriented in the first orientation; and		
5	a second passageway that couples the inlet to the valve assembly when the valve		
6	assembly is oriented in the second orientation.		

1	21. The torch as recited in claim 20, comprising a first outlet coupled to the inlet				
2 through the valve assembly.					
1	22. The torch as recited in claim 20, comprising a second outlet coupled to the inlet				
2	via a bypass around the valve assembly.				
1	23. The torch as recited in claim 20, comprising a third outlet coupled to a second				
2	inlet for receiving a second fluid.				
1	24. A torch butt for a cutting torch, comprising:				
2	a first inlet for receiving a first gas;				
3	a first passageway operable to couple the first gas to an inlet of a flow control valve				
4	when the flow control valve is disposed in a first orientation relative to the torch butt; and				
5	a second passageway operable to couple the first gas to the inlet of the flow control				
6	valve when the flow control valve is disposed in a second orientation relative to the torch butt.				
1	25. The torch butt as recited in claim 24, comprising a first seating surface and a				
2	second seating surface, wherein the first seating surface is oriented to engage a seat of the flow				
3	control valve when the flow control valve is disposed in the first orientation relative to the torch				
4	butt, and the second seating surface is oriented to engage the seat of the flow control valve when				
5	the flow control valve is disposed in the second orientation relative to the torch butt.				
1	26. The torch butt as recited in claim 24, comprising a first receiving portion and a				
2	26. The torch butt as recited in claim 24, comprising a first receiving portion and a second receiving portion disposed on opposites sides of the rear of the torch butt to enable the				
3					
J	torch butt to pivotally receive a lever to operate the flow control valve.				
1	27. A torch butt for a cutting torch, comprising:				
2	a first seating surface operable to engage a seat of a flow control valve when the flow				
3	control valve is disposed in a first orientation relative to the torch butt; and				
4	a second seating surface operable to engage the seat of the flow control valve when the				
5	flow control valve is disposed in a second orientation relative to the torch butt,				
6	wherein the first and second seating surfaces are oriented in opposite directions.				

1	28. The torch butt as recited in claim 27, comprising a first lever pivoting portion		
2	and a second lever pivoting portion disposed on opposite sides of the torch butt, wherein the		
3	first and second lever pivoting portions are operable to pivotally secure a lever to the torch butt.		
1	29. The torch butt as recited in claim 28, wherein the first lever pivoting portion is		
2	operable to pivotally secure the lever to the torch butt to operate the flow control valve when the		
3	flow control valve is disposed in the first orientation relative to the torch butt, and the second		
4	lever pivoting portion is operable to pivotally secure the lever to the torch butt to operate the		
5	flow control valve when the flow control valve is disposed in the second orientation relative to		
6			
1	30. A method of moving a cutting oxygen lever from a first side of a torch to a		
2	second side of the torch, comprising:		
3	removing the cutting oxygen lever from the first side of the torch;		
4	removing a cutting oxygen valve assembly from the torch;		
5	inverting the cutting oxygen valve assembly relative to the torch;		
6	installing the inverted cutting oxygen valve assembly in the torch; and		
7	pivotally securing the lever to the second side of the torch to enable the lever to operate		
8	the cutting oxygen valve assembly.		
1	31. A torch, comprising:		
2	means for selectively securing a cutting oxygen valve assembly within a torch butt in a		
3	first and a second orientation relative to the torch, the second orientation being inverted relative		
4	to the first orientation; and		
5	means for pivotally securing a lever on opposite sides of the torch to enable the lever to		
6	operate the cutting oxygen valve assembly in the first and the second orientations.		
1	32. A handle for a torch, comprising:		
2	a handle body coupleable to a torch butt and to a tube support member, wherein the		
3	handle body comprises a skull-shaped cross section uniform along a length of the handle body.		

- The torch handle recited in claim 32, wherein the handle body comprises a first curved surface and a second curved surface, the first curved surface having a first radius and the second curved surface having a second radius, the second radius being less than the first radius.
- 1 34. The torch handle recited in claim 32, wherein the handle body is generally 2 straight.
- 1 35. The torch handle recited in claim 32, further comprising a plurality of ribs disposed around the handle body.